Title: LOCATION SYSTEM AND METHOD FOR OPERATING MOBILE TERMINAL AS A RESPONSIBLE LOCATION FOR SELECTING A POSITIONING METHOD
Inventor: Jun-ichi MATSUDA
DOCKET NO.: 017344-0328

FIG. 1

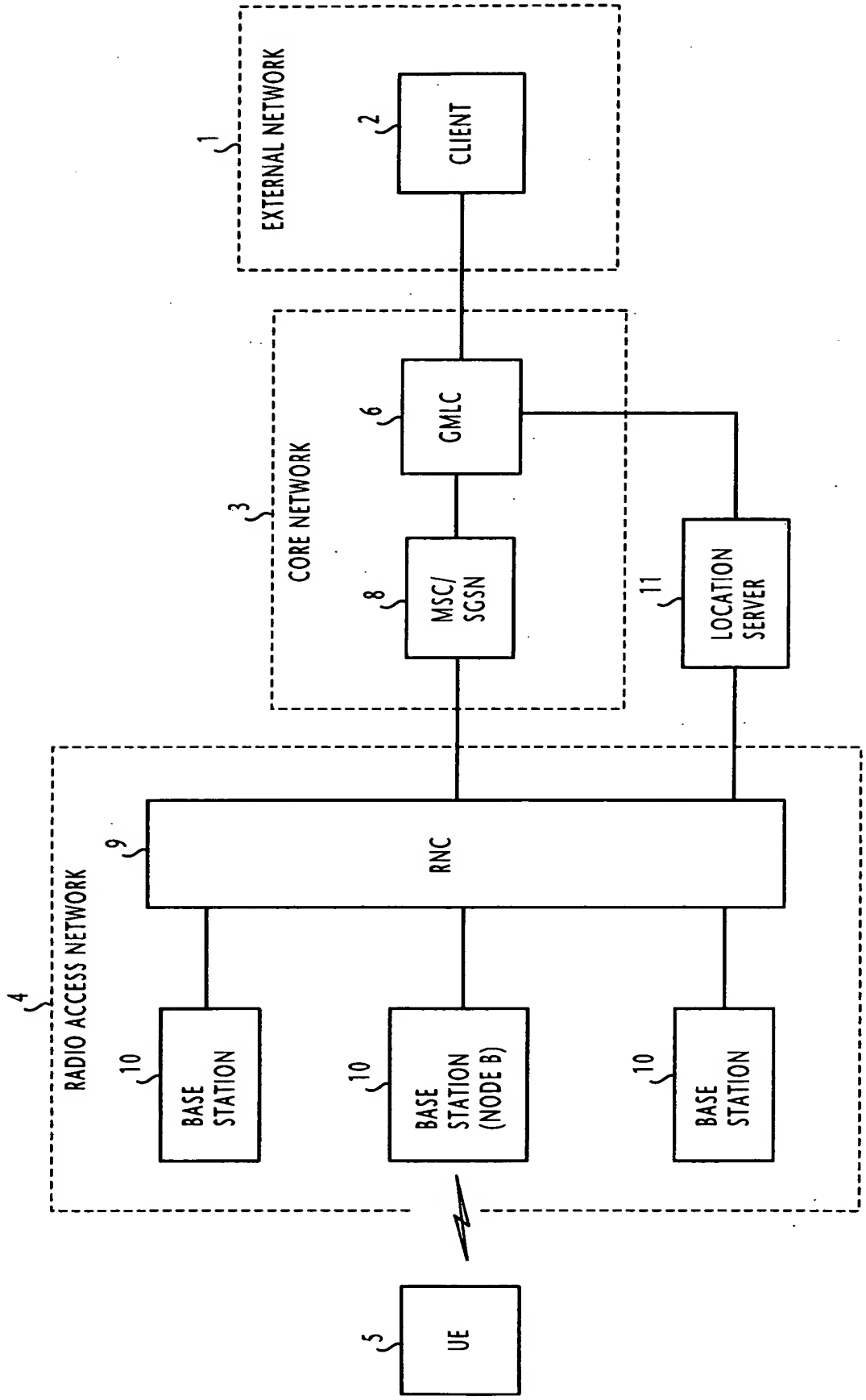

FIG. 2

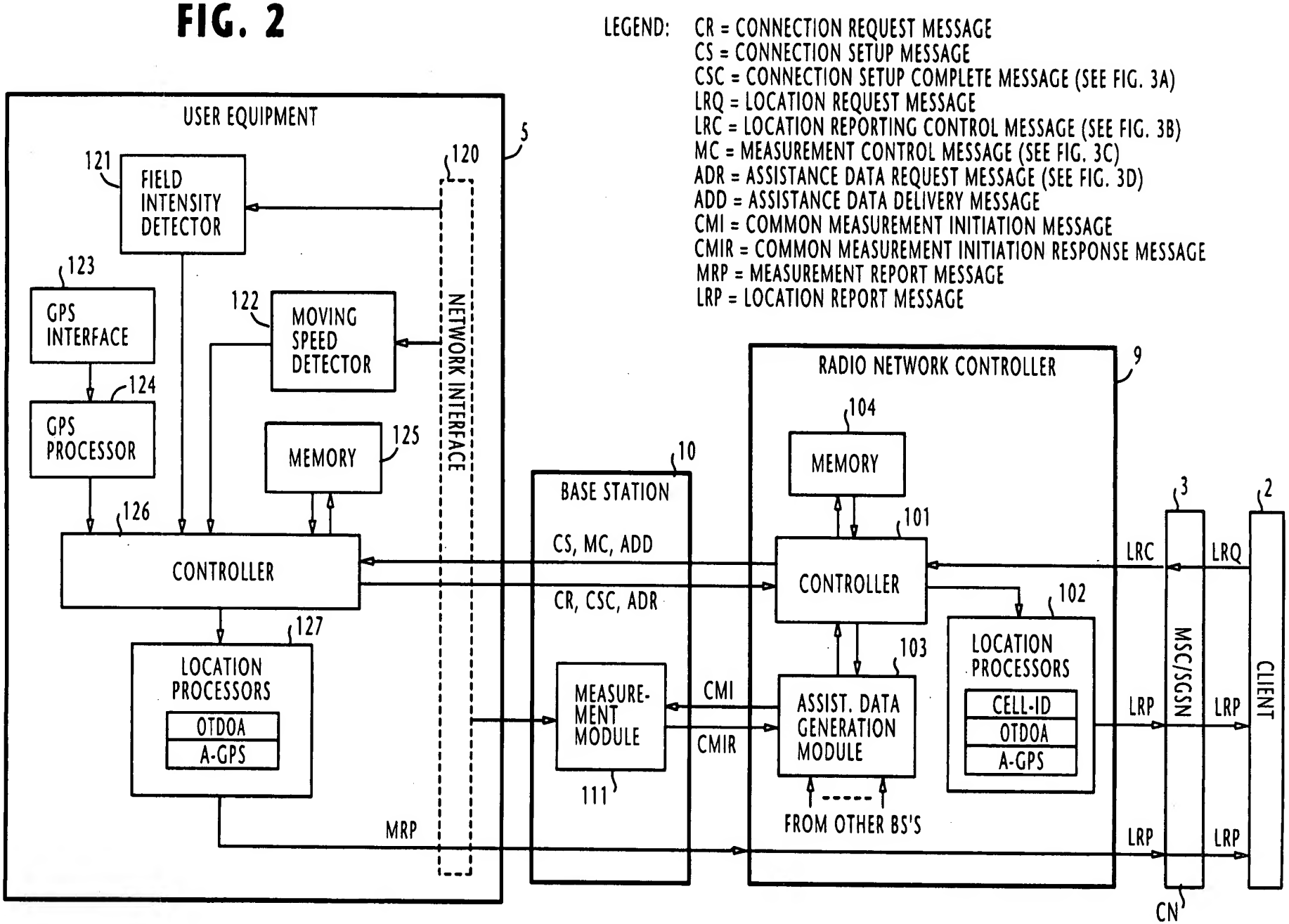

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FIG. 3A

CONNECTION SETUP COMPLETE MESSAGE
(FROM UE TO RNC)

	FIELDS	CAPABILITIES SUPPORTED BY UE
31	POSITIONING METHOD SELECTABILITY	"1" = SUPPORTED "0" = NOT SUPPORTED
32	UE-BASED OTDOA	"1" = SUPPORTED "0" = NOT SUPPORTED
33	NETWORK ASSISTED GPS	"0" = NETWORK-BASED GPS IS SUPPORTED "1" = UE-BASED GPS IS SUPPORTED "2" = BOTH NETWORK- AND UE-BASED GPS ARE SUPPORTED "3" = NOT SUPPORTED

FIG. 3B

LOCATION REPORTING CONTROL MESSAGE
(FROM MSC/SGSN TO RNC)

	FIELDS	ACCURACY REQUESTED BY CLIENT
34	HORIZONTAL ACCURACY CODE	HORIZONTAL ACCURACY REQUESTED BY CLIENT
35	VERTICAL ACCURACY CODE	VERTICAL ACCURACY REQUESTED BY CLIENT
36	RESPONSE TIME	REQUESTED WAITING TIME TO RECEIVE LOC. REPORT

FIG. 3C

MEASUREMENT CONTROL MESSAGE
(FROM RNC TO UE)

	FIELDS	METHOD TO BE USED
37	POSITIONING METHODS	"0" = CELL ID SPECIFIED BY RNC "1" = OTDOA SPECIFIED BY RNC "2" = GPS SPECIFIED BY RNC "3" = OTDOA OR GPS SPECIFIED BY RNC "4" = UE IS RESPONSIBLE FOR SELECTING POSITIONING METHOD
38	HORIZONTAL ACCURACY CODE	COPIED FROM LRC MESSAGE
39	VERTICAL ACCURACY CODE	COPIED FROM LRC MESSAGE
40	RESPONSE TIME	COPIED FROM LRC MESSAGE

FIG. 3D

ASSISTANCE DATA REQUEST MESSAGE
(FROM UE TO RNC)

	FIELDS	METHOD SELECTED BY UE
41	POSITIONING METHODS	"0" = RESERVED "1" = OTDOA "2" = GPS "3" = OTDOA AND GPS
42	METHOD TYPE	"0" = UE-BASED "1" = UE-ASSITED

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FIG. 4

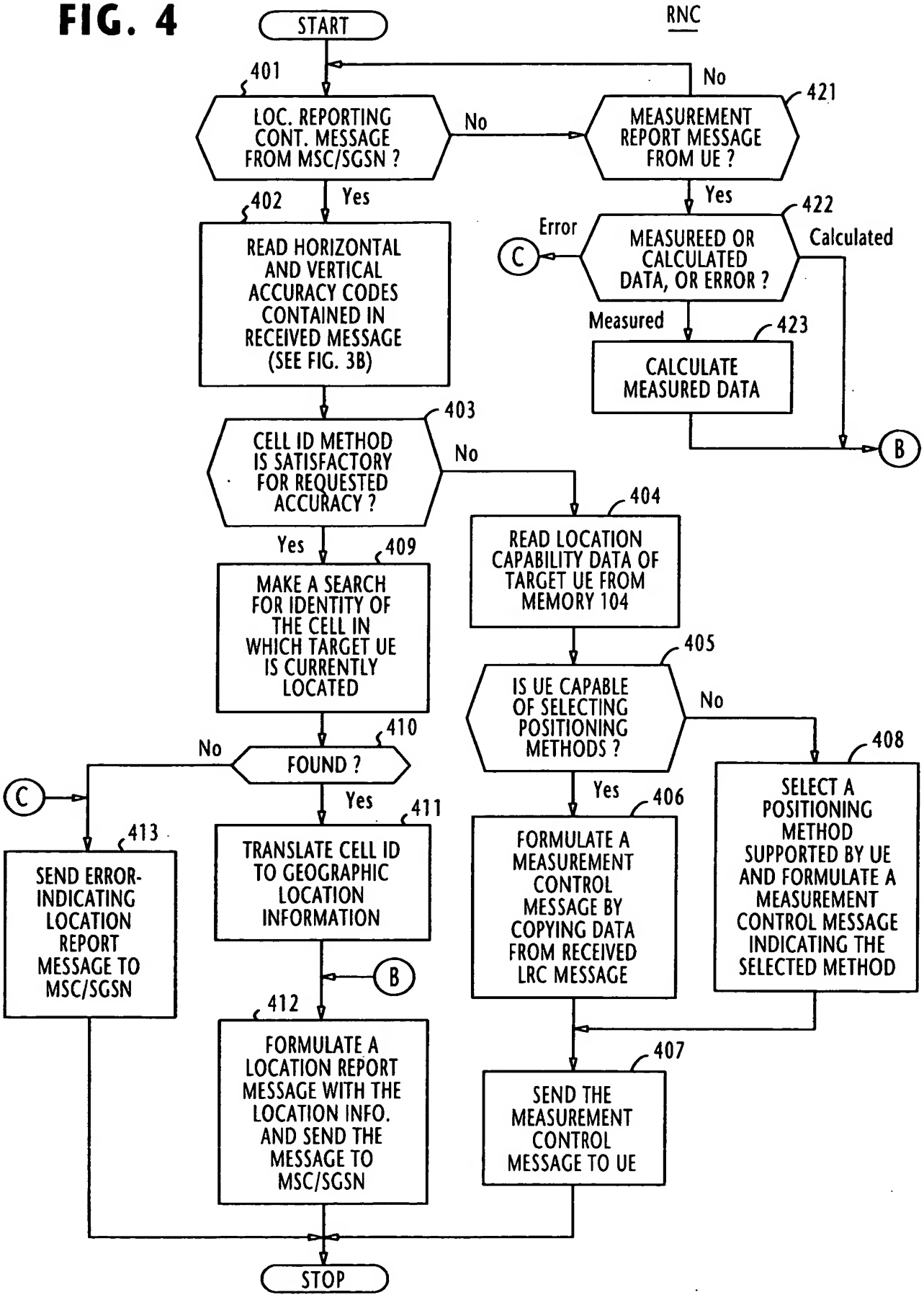

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FIG. 5

UE

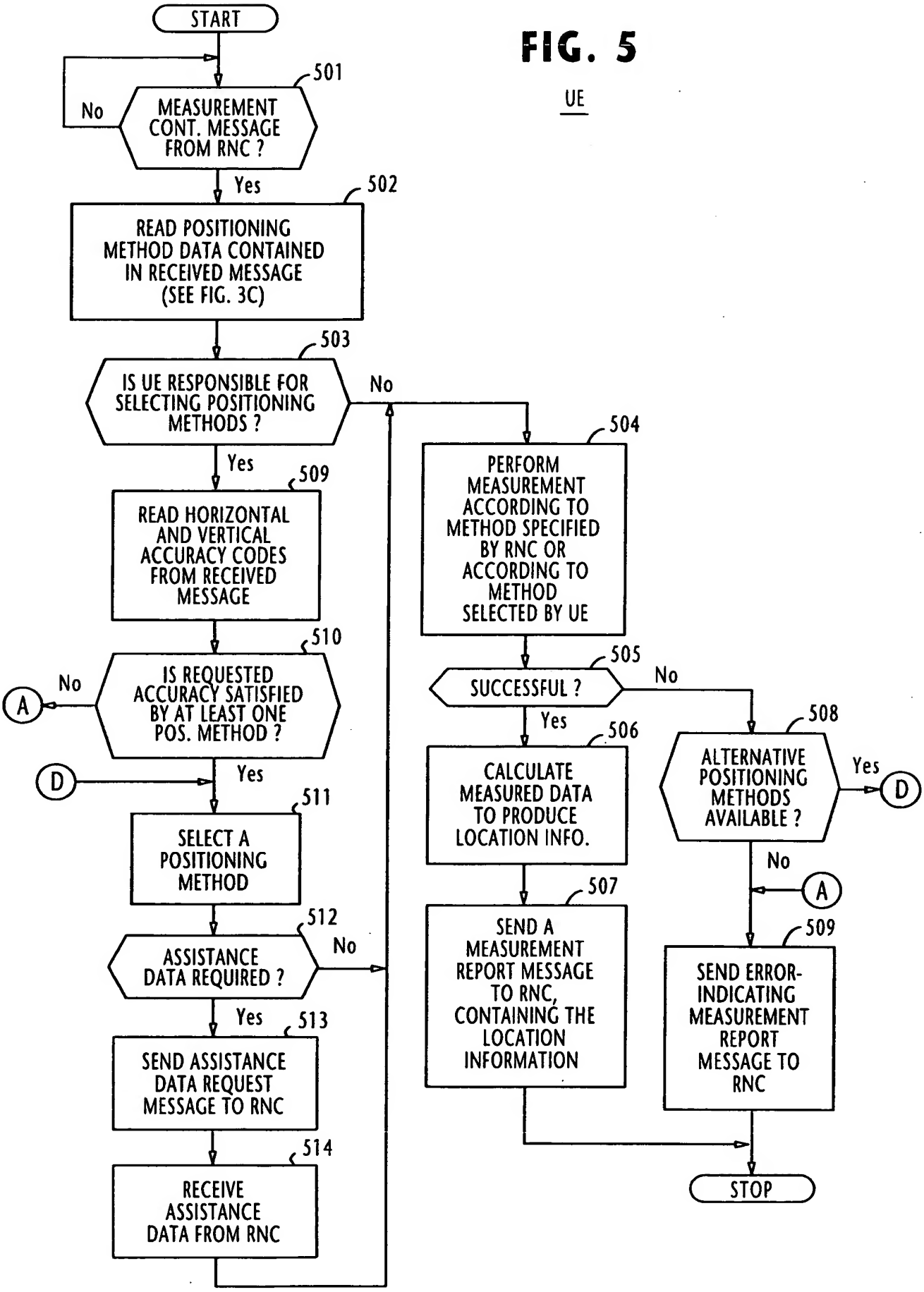

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FIG. 6

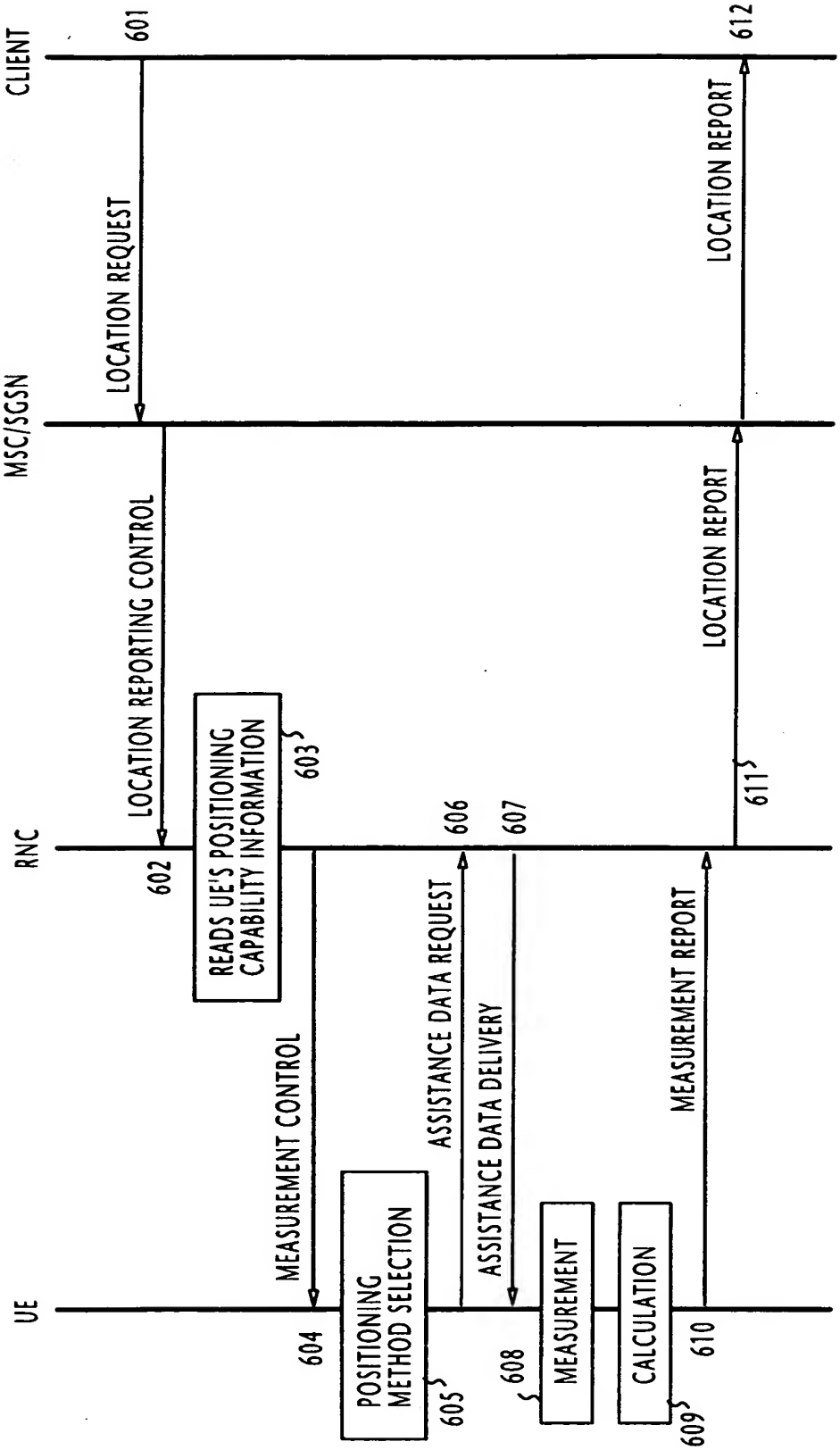

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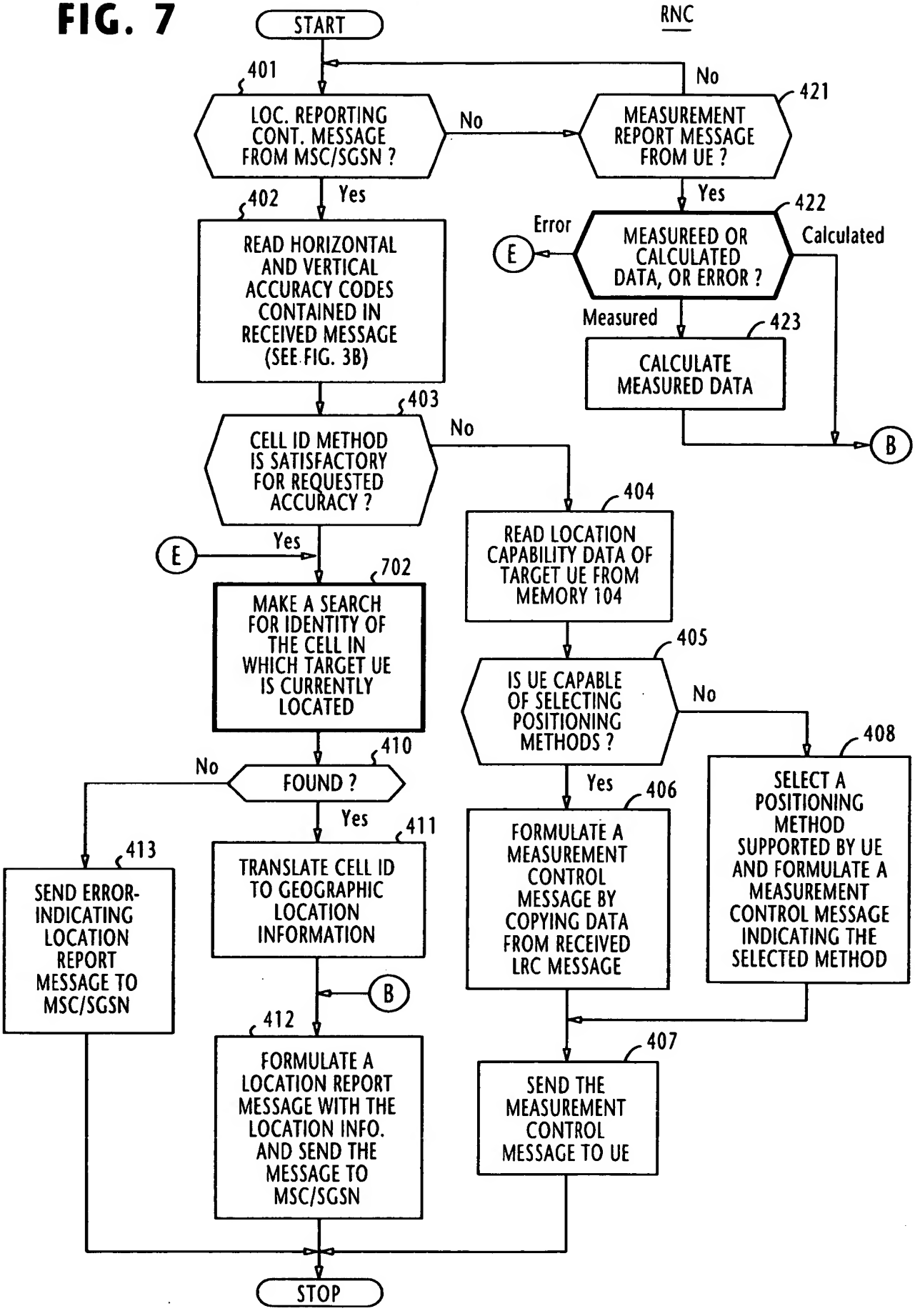
FIG. 7



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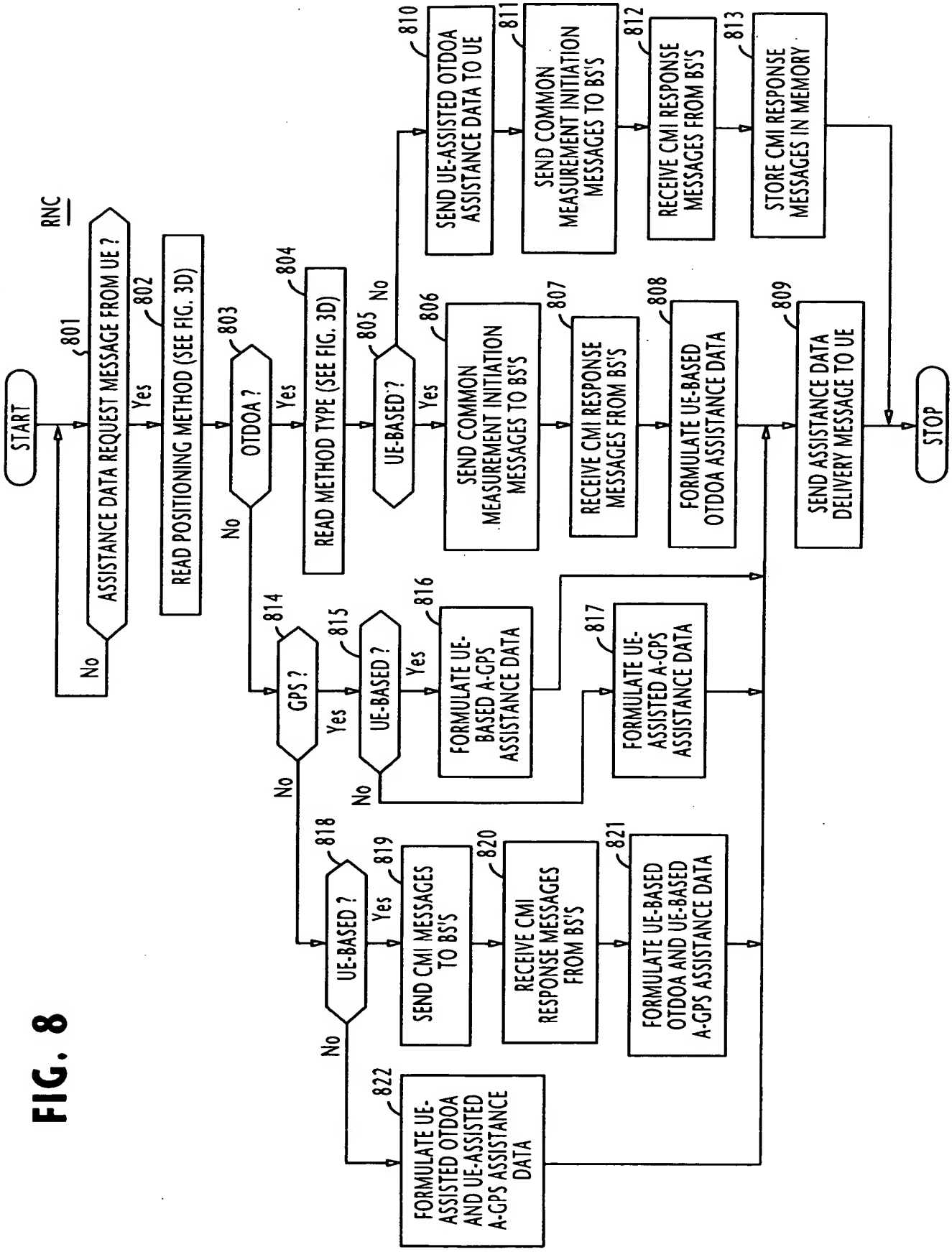

FIG. 8

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FIG. 9

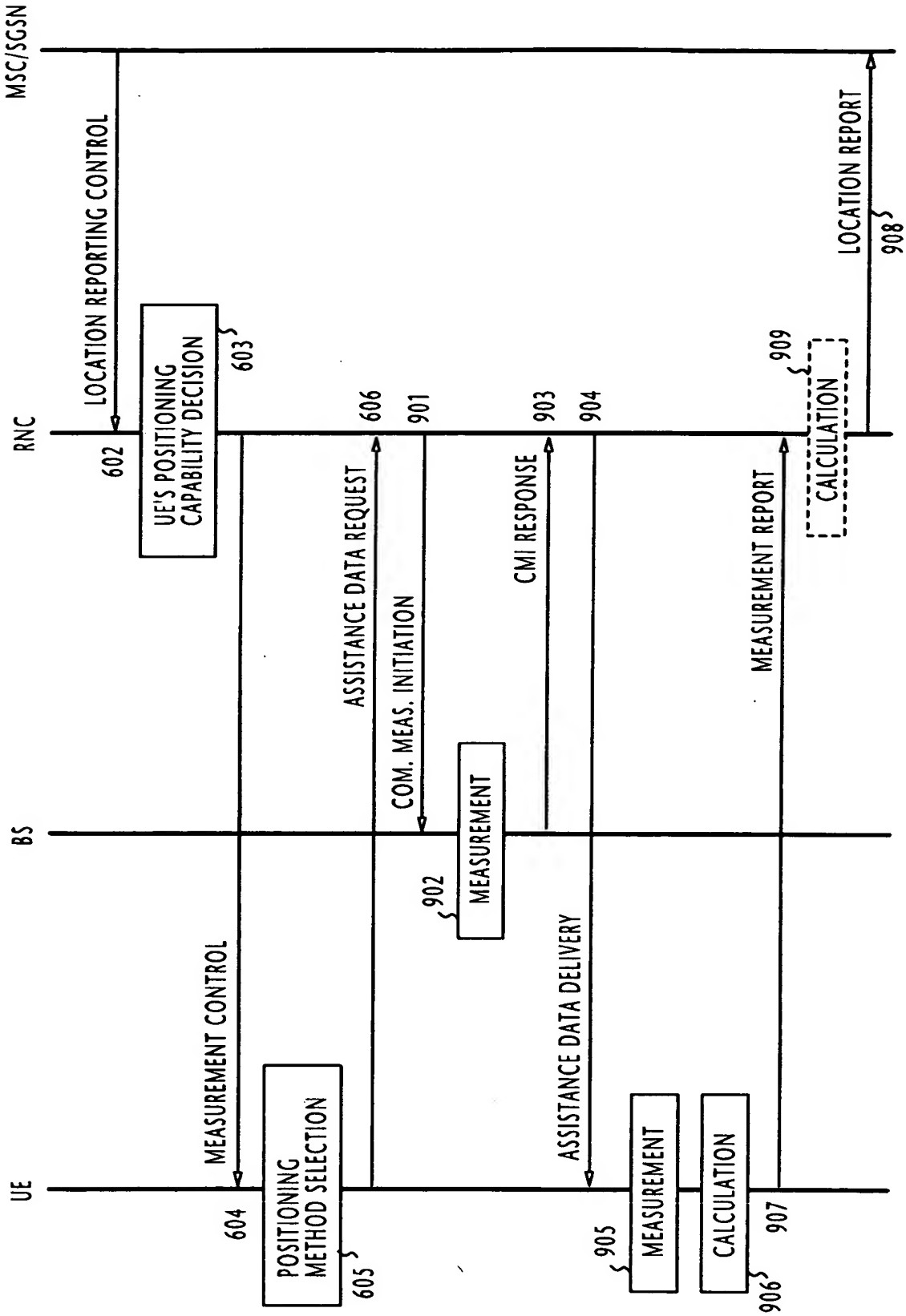

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FIG. 10

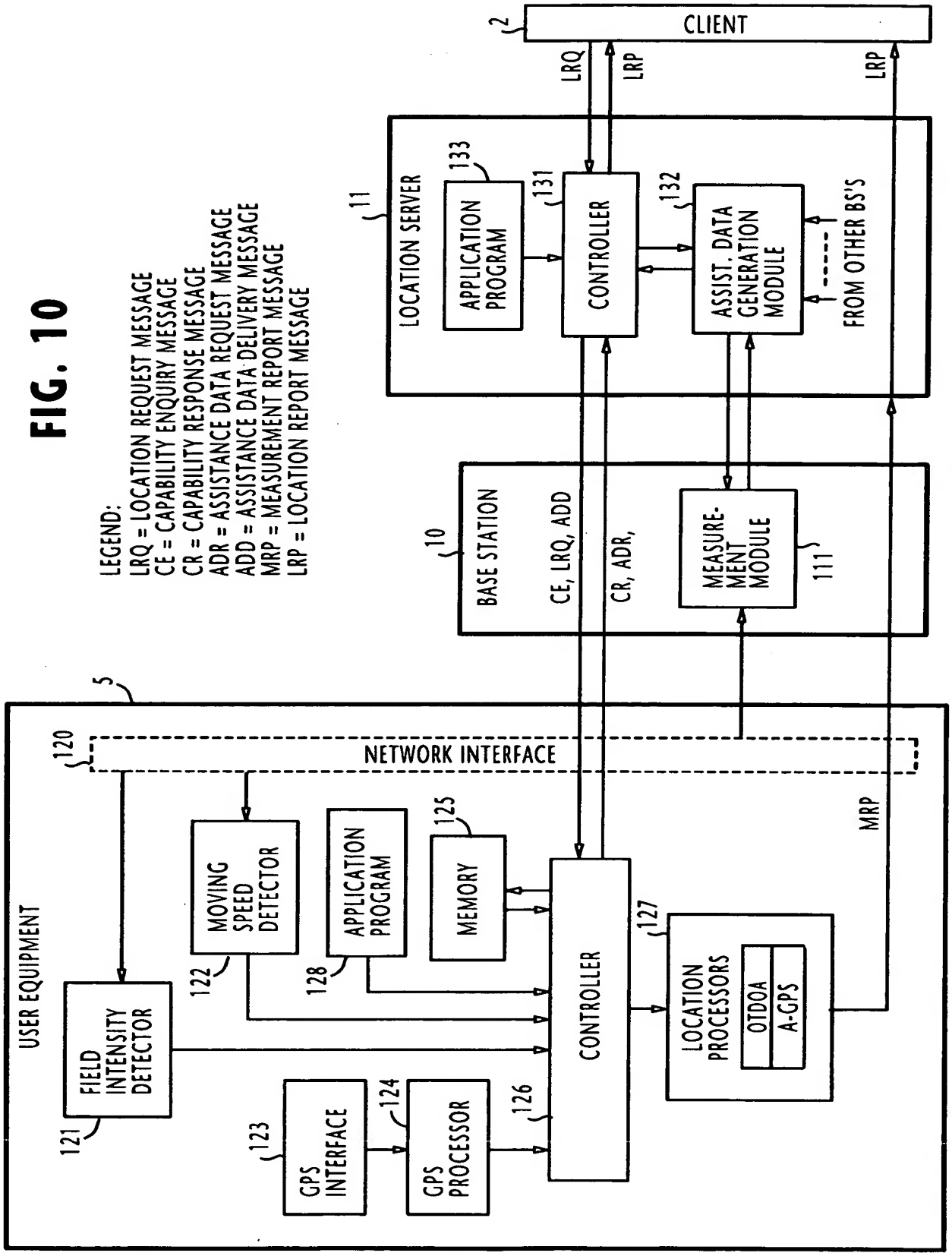

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FIG. 11

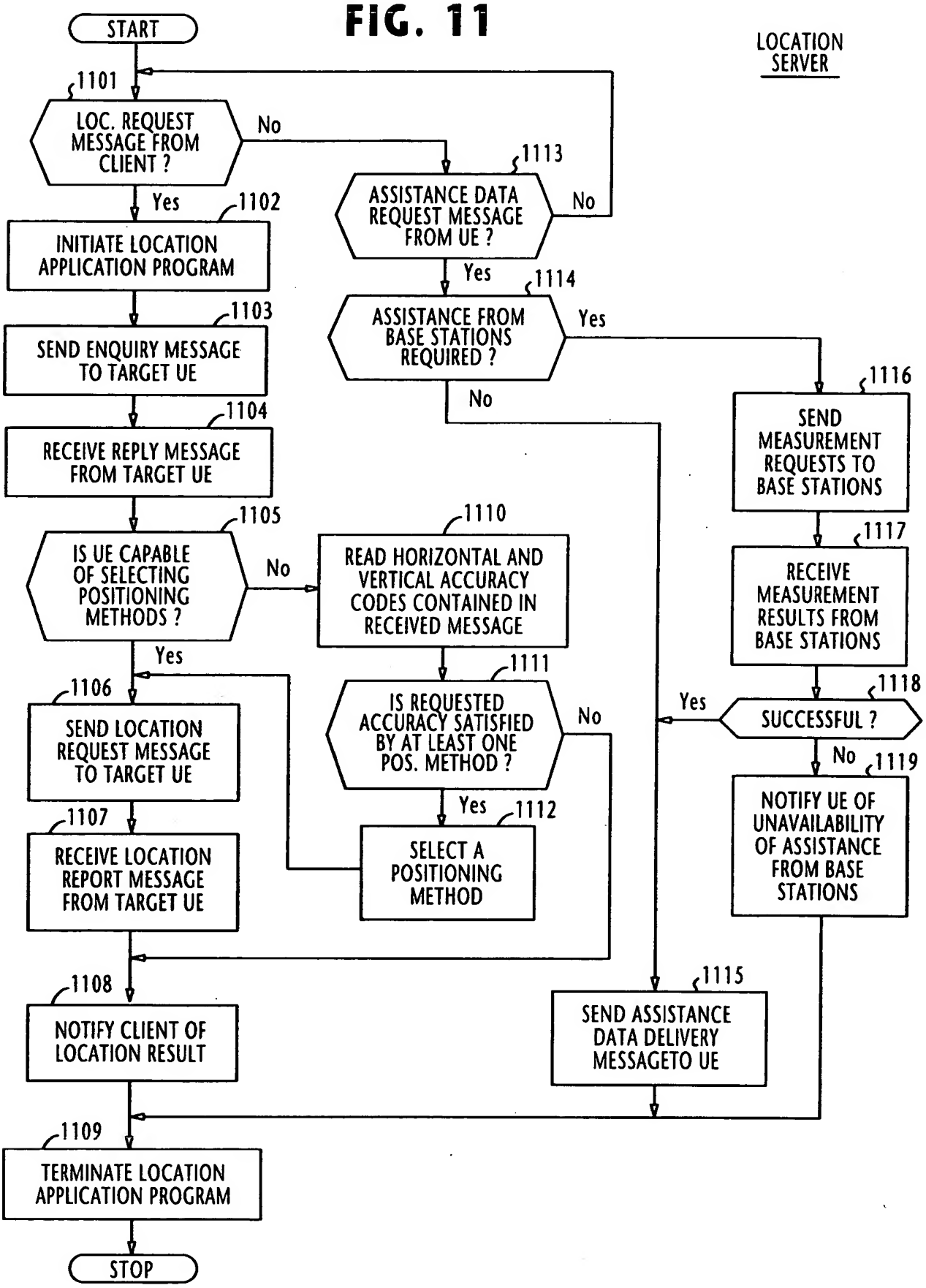

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FIG. 12

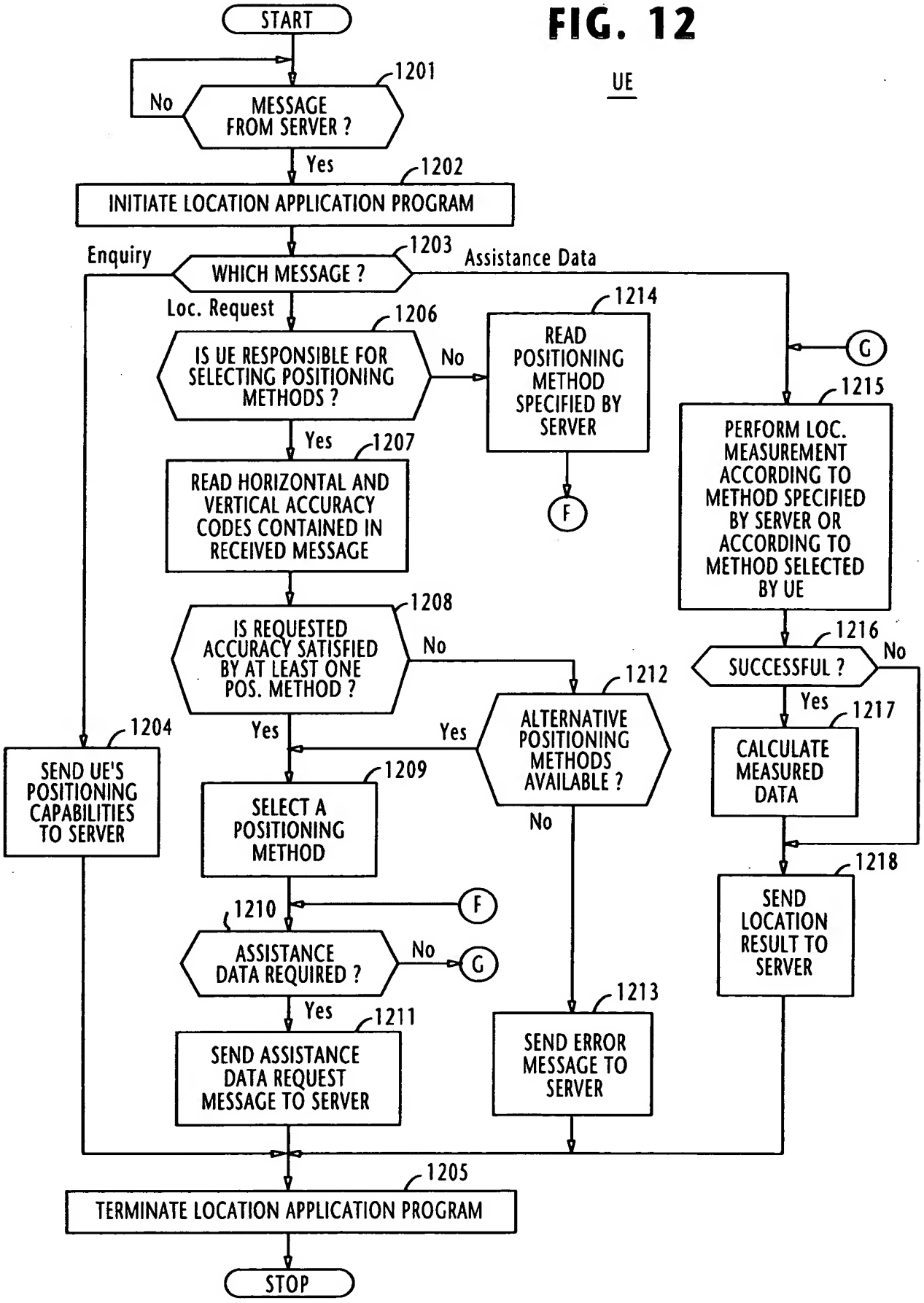

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FIG. 13

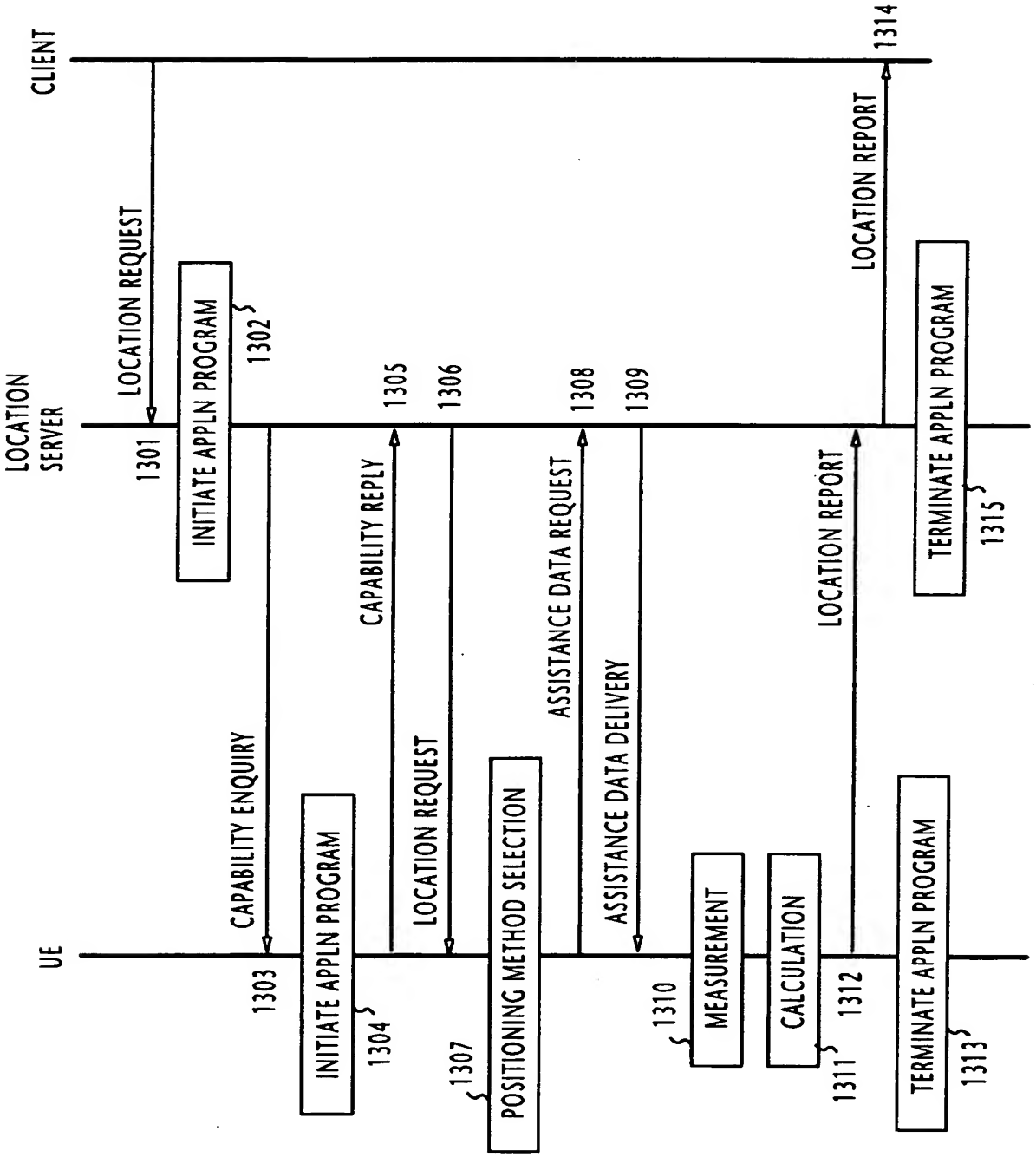

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FIG. 14

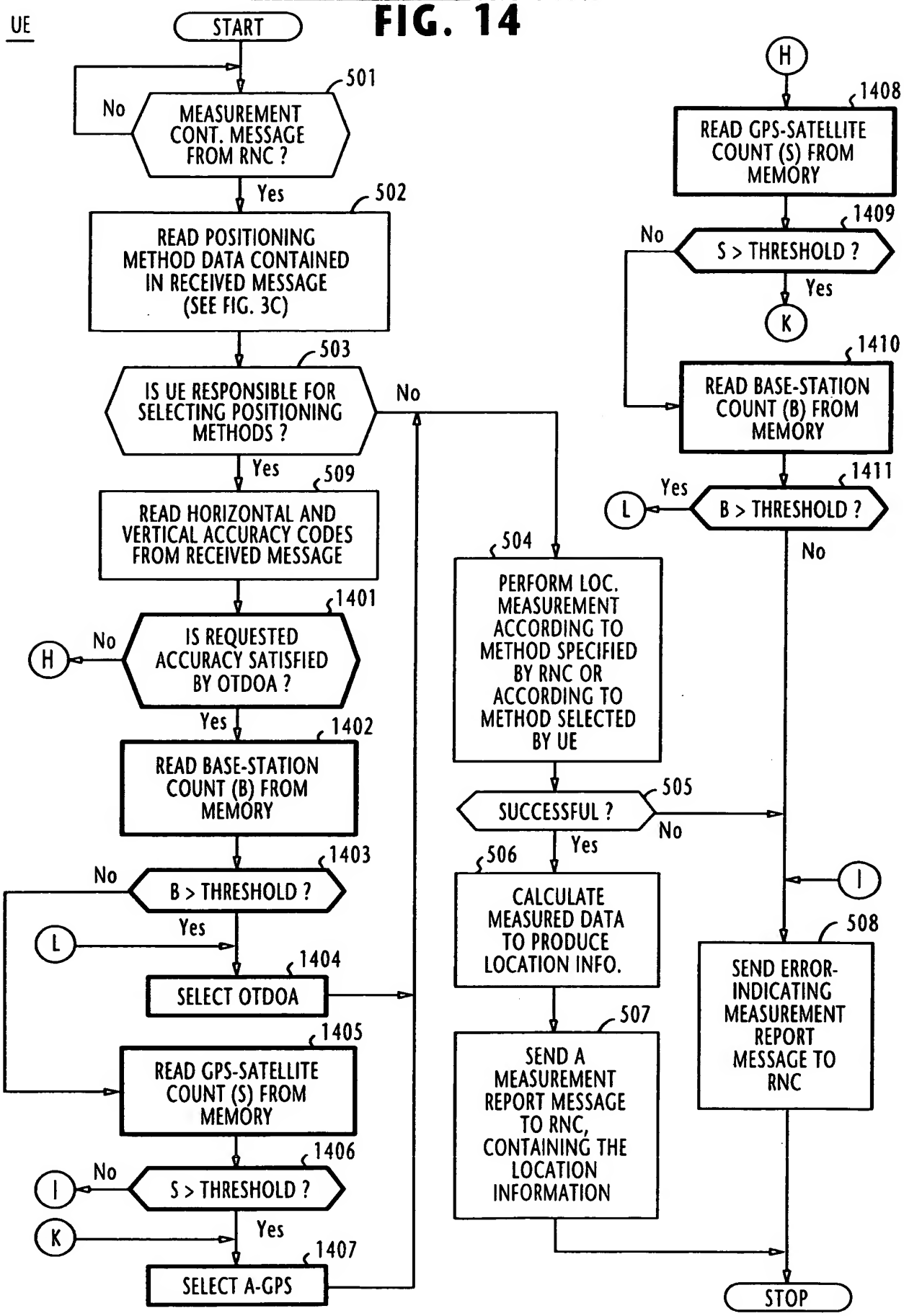

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FIG. 15

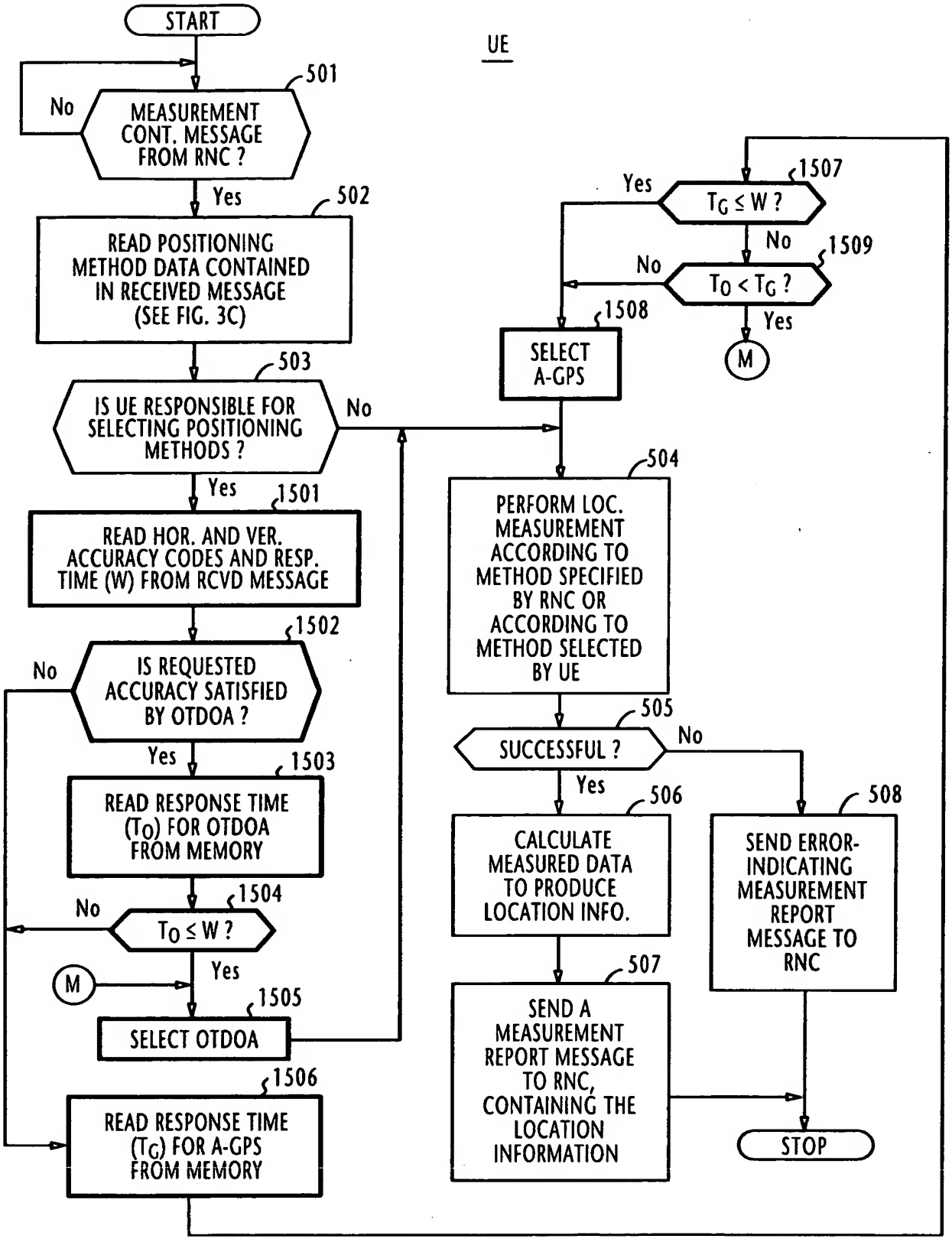

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FIG. 16

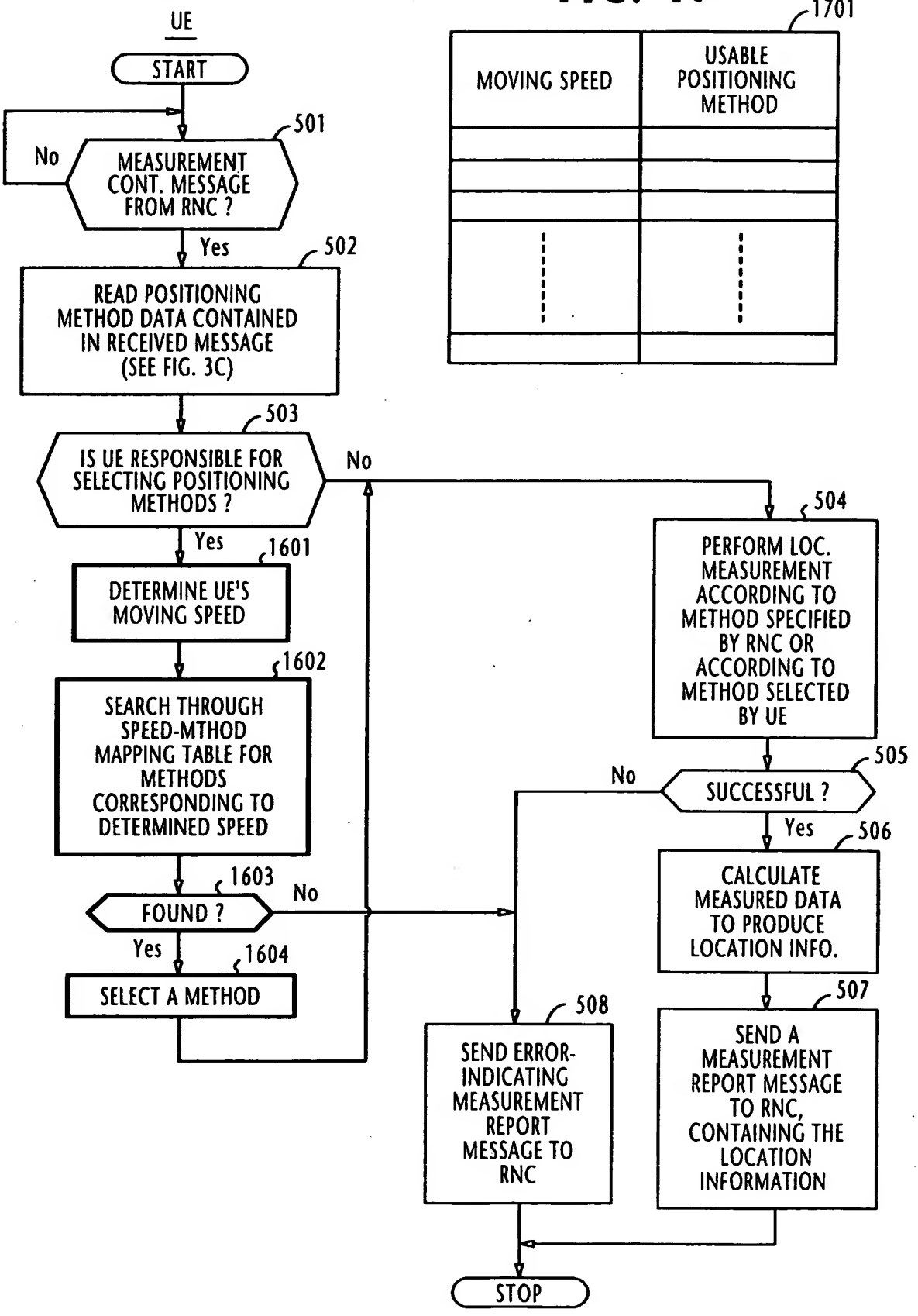

FIG. 17

1701

MOVING SPEED	USABLE POSITIONING METHOD
⋮	⋮

FIG. 18

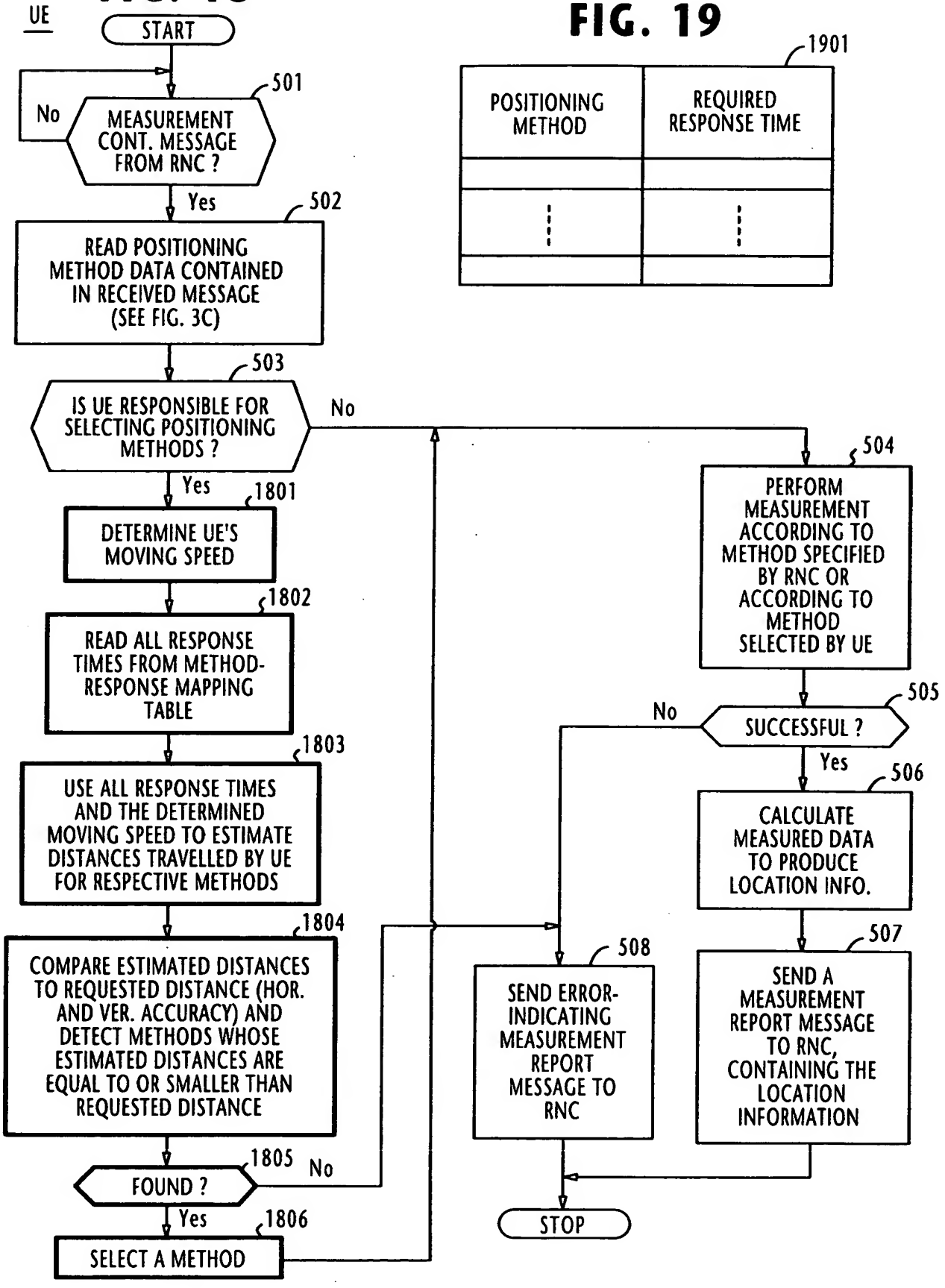

FIG. 19

1901

POSITIONING METHOD	REQUIRED RESPONSE TIME
⋮	⋮

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FIG. 20

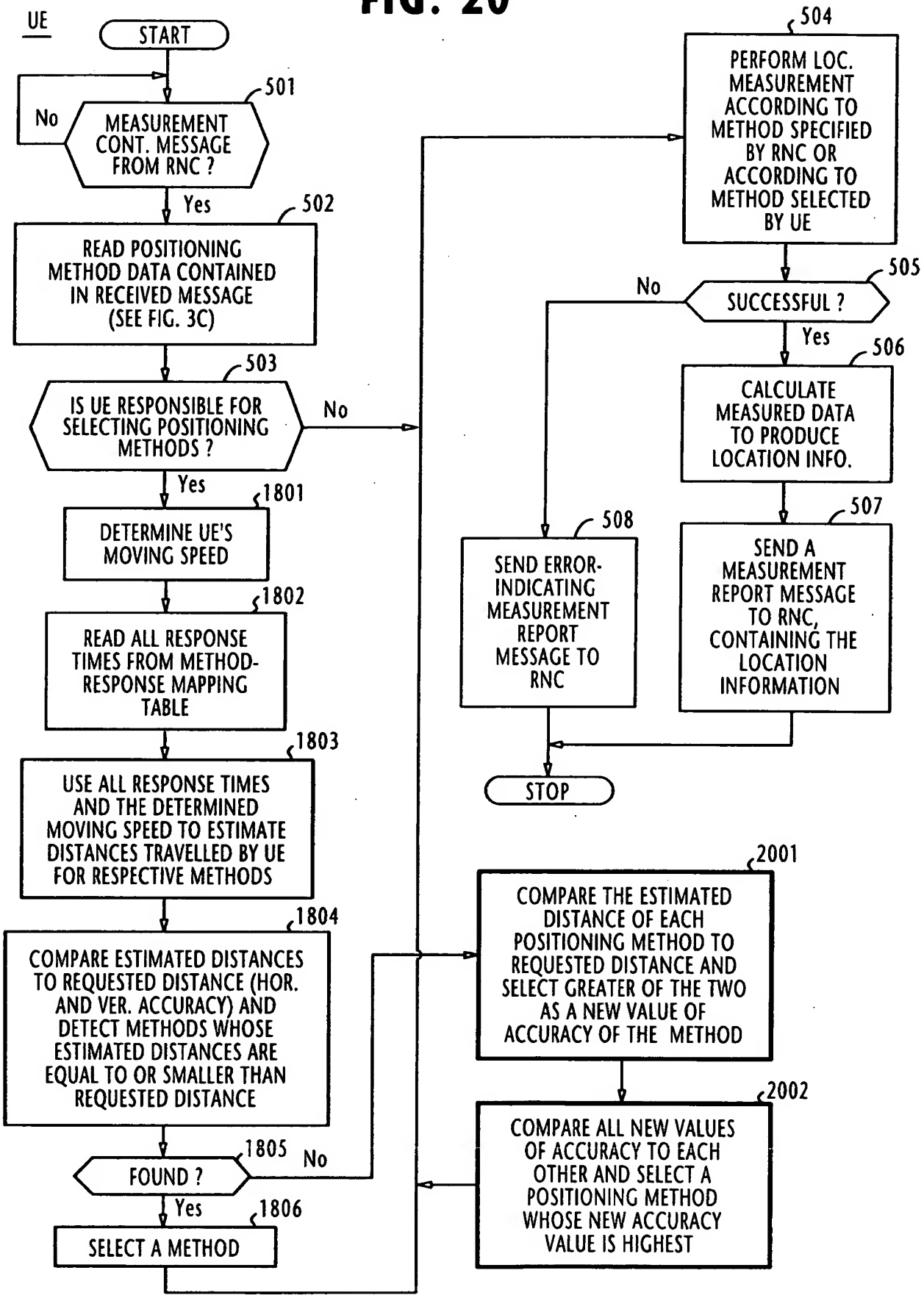

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FIG. 21

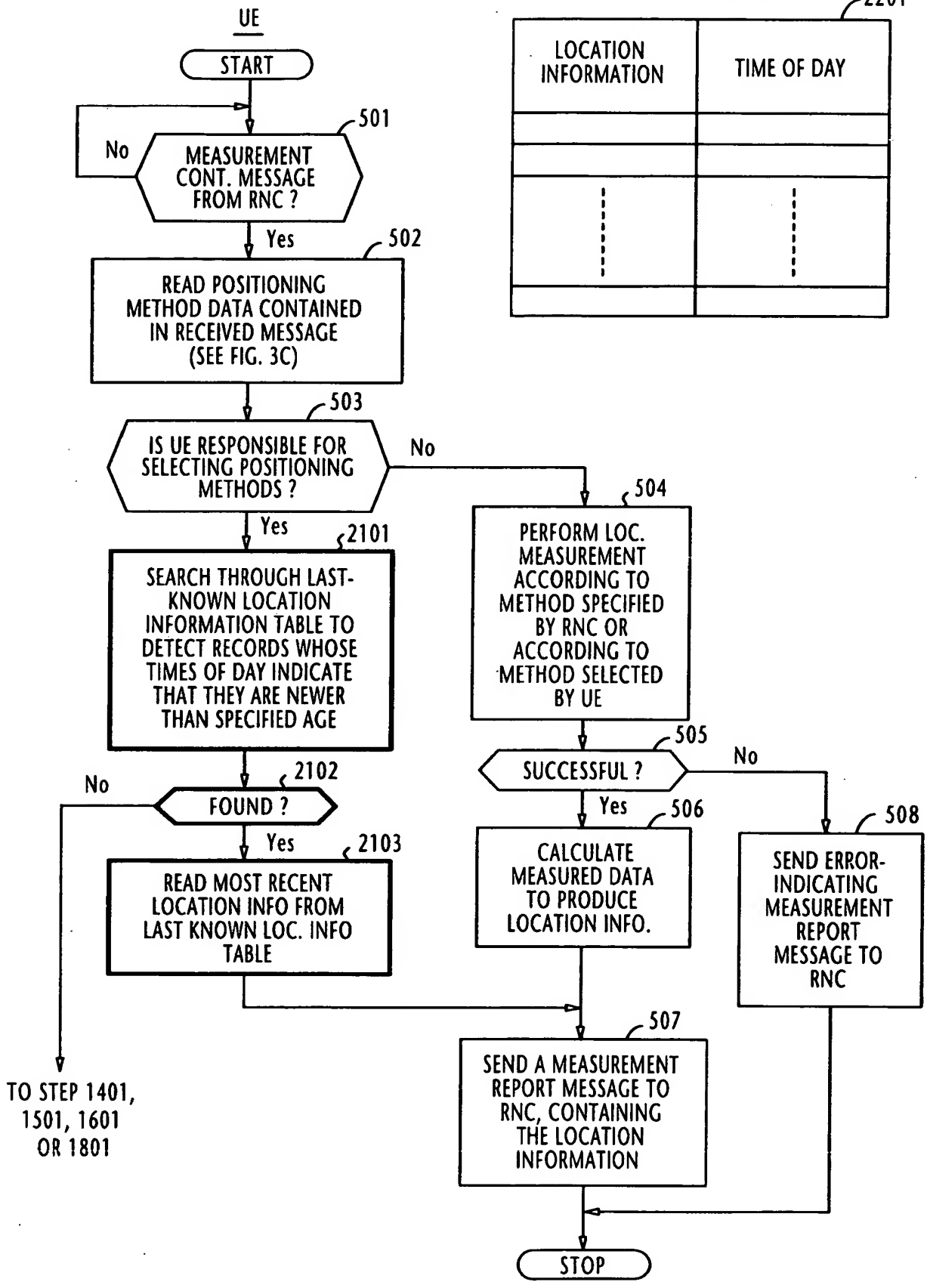

FIG. 22

2201

LOCATION INFORMATION	TIME OF DAY
⋮	⋮